

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995518

Luminaire Tested: 22D3X-LP-WD-40-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-40-L850.ies
Description: 2x2 D3X-LP AT 4000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

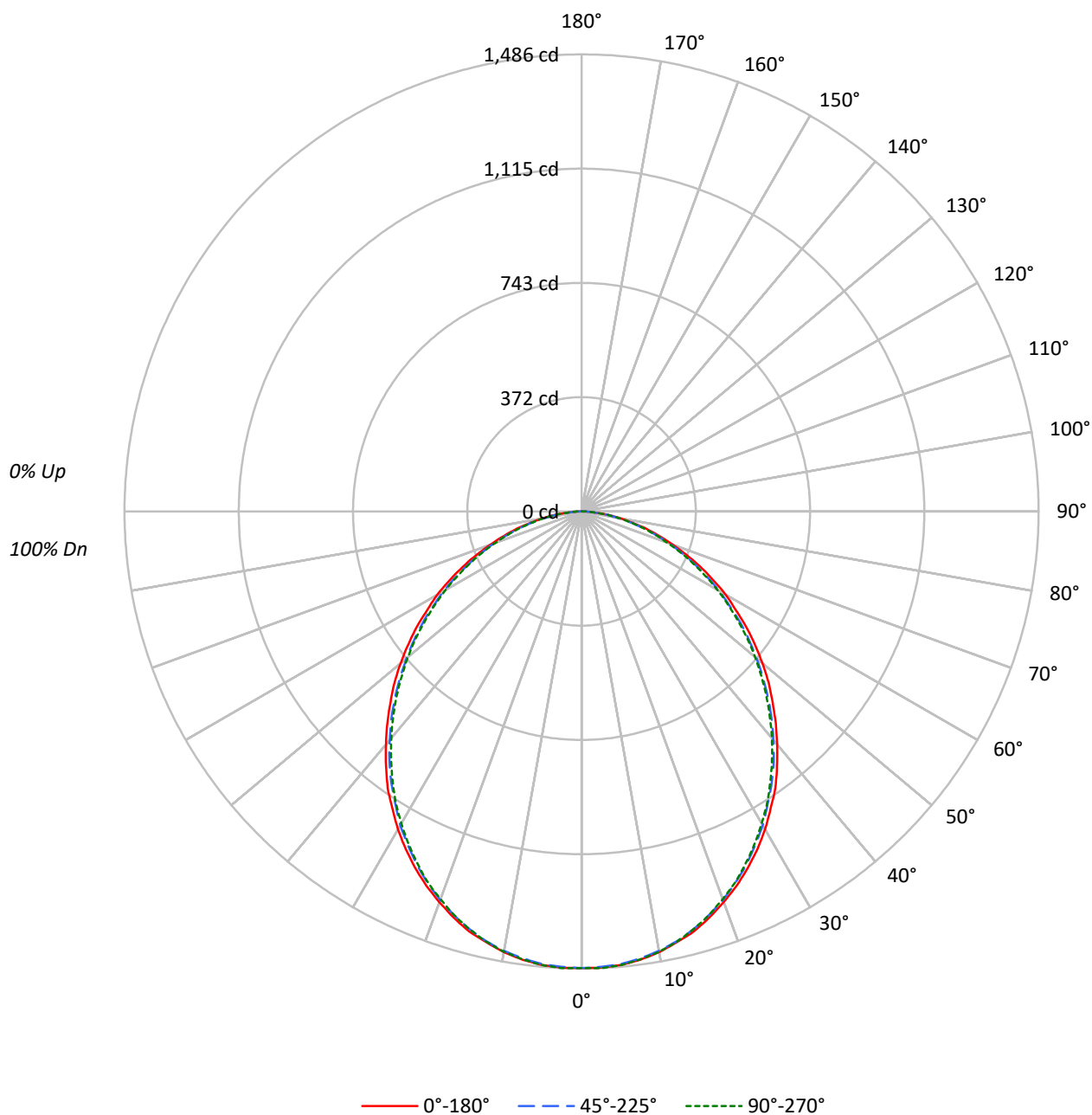
Lumens per Lamp: N/A
Luminaire Lumens: 3710.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3995	3995	3995
5°	3999	3991	3999
10°	3976	3964	3972
15°	3938	3918	3918
20°	3871	3849	3841
25°	3798	3763	3750
30°	3708	3662	3639
35°	3609	3541	3517
40°	3475	3408	3382
45°	3343	3264	3236
50°	3213	3108	3083
55°	3066	2956	2914
60°	2913	2786	2746
65°	2712	2580	2552
70°	2478	2386	2327
75°	2260	2122	2138
80°	1948	1833	1857
85°	1507	1460	1371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	3.8
10°-20°	396.6	10.7
20°-30°	584.1	15.7
30°-40°	675.6	18.2
40°-50°	664.2	17.9
50°-60°	566.1	15.3
60°-70°	405.6	10.9
70°-80°	220.3	5.9
80°-90°	57.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1120.9	30.2
0°-40°	1796.5	48.4
0°-60°	3026.8	81.6
0°-90°	3710.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1480	1477	1477	1477	1480	140
15°	1414	1408	1406	1405	1406	398
25°	1279	1273	1267	1264	1263	589
35°	1099	1090	1078	1072	1071	685
45°	878	872	858	850	850	679
55°	654	642	630	623	621	584
65°	426	417	405	401	401	422
75°	217	210	204	201	206	230
85°	49	49	47	46	44	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1484.7	1483.2	1481.7	1483.2	1486.2
5°	1480.3	1477.3	1477.3	1477.3	1480.3
7.5°	1469.9	1467.0	1465.5	1467.0	1468.4
10°	1455.1	1452.2	1450.7	1452.2	1453.7
12.5°	1434.4	1432.9	1431.5	1431.5	1432.9
15°	1413.7	1407.8	1406.3	1404.9	1406.3
17.5°	1384.1	1382.7	1376.8	1376.8	1376.8
20°	1351.6	1348.7	1344.2	1341.3	1341.3
22.5°	1317.6	1314.6	1307.3	1304.3	1305.8
25°	1279.2	1273.2	1267.3	1264.4	1262.9
27.5°	1237.7	1231.8	1223.0	1218.5	1218.5
30°	1193.4	1188.9	1178.6	1172.7	1171.2
32.5°	1144.6	1141.6	1126.8	1123.9	1123.9
35°	1098.7	1089.9	1078.0	1072.1	1070.6
37.5°	1044.0	1038.1	1026.3	1018.9	1017.4
40°	989.3	981.9	970.1	964.2	962.7
42.5°	934.6	927.2	915.4	908.0	906.5
45°	878.4	872.5	857.7	850.3	850.3
47.5°	825.2	813.3	800.0	794.1	792.6
50°	767.5	757.1	742.4	736.4	736.4
52.5°	709.8	702.4	686.2	683.2	680.2
55°	653.6	641.8	630.0	622.6	621.1
57.5°	593.0	582.6	570.8	564.9	564.9
60°	541.2	527.9	517.6	510.2	510.2
62.5°	482.1	470.3	459.9	455.5	454.0
65°	425.9	417.0	405.2	400.8	400.8
67.5°	369.7	362.3	352.0	347.5	349.0
70°	315.0	310.5	303.2	297.2	295.8
72.5°	264.7	258.8	251.4	249.9	249.9
75°	217.4	210.0	204.1	201.1	205.6
77.5°	168.6	164.1	161.2	159.7	161.2
80°	125.7	119.8	118.3	119.8	119.8
82.5°	87.2	84.3	82.8	82.8	82.8
85°	48.8	48.8	47.3	45.8	44.4
87.5°	19.2	19.2	20.7	20.7	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)